

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended): An actuator for actuating a moving member, said actuator ~~essentially~~ comprising a screw and at least two nuts engaged on the screw, relative movement between the screw and the nuts generating said actuation, said actuator further comprising a pin through which a conductive wire~~an electrical link~~ passes, one of the nuts being a force-transmitting element placed in the path of the force between the screw and the moving member ~~via one of the nuts~~, and a ~~mechanical shoulder~~extension of the one of said nuts~~force-transmitting element~~ that extends to the vicinity of the other nut, the pin passing both through the ~~mechanical extension~~shoulder and through an element coupled to the other nut so that any abnormal shift in the one of said nut ~~force-transmitting element~~ relative to the screw results in shearing between its ~~mechanical extension~~shoulder and the element coupled to the other nut, causing the pin to break and causing the ~~electrical link~~conductive wire to be broken, wherein the pin includes a spring that operates to generate a parting force on the pin so that the pin breaking by shearing causes two portions of the pin separated by the pin breaking to move apart.

Claim 2 (Currently Amended): An actuator according to claim 1, constituting an actuator having a primary nut and a secondary nut, each of which is coupled to the moving member via ~~[[a]]~~ respective fastening stubs~~specific coupling~~, wherein the force-transmitting element which causes shearing if it is abnormally shifted is constituted by an element that lies in the path of the forces between the screw and the moving member via the primary nut, and wherein the mechanical extension causing the shearing comes from the specific coupling between the secondary nut and the moving member, so that the abnormal shift is transmitted to the pin via the specific coupling of the secondary nut.

Claim 3 (Withdrawn): An actuator according to claim 1, wherein the shearing member is a transfer plate covering the secondary nut and providing the specific coupling between the secondary nut and the moving member.

Claim 4 (Canceled)

Claim 5 (Currently Amended): An actuator according to claim 1, constituting an actuator of the ball type, ~~roller type, or wheel type, i.e.~~ in which a primary nut has a series of balls, rollers, or wheels on its face facing the screw for the purpose of providing moving contacts between the screw and the nut.

Claim 6 (Canceled)

Claim 7 (Previously Presented): An actuator according to claim 6, wherein the resilient return member is an helical spring surrounding the pin.

Claim 8 (Original): An actuator according to claim 7, wherein the pin has a wider head at one of its ends, the helical spring pressing at one end against the wider head and at the other end against an element secured to or integral with one of the nuts.

Claim 9 (Withdrawn): An actuator according to claim 1, wherein the pin has two wider heads and is provided with two helical springs, each of which is placed between a wider head and an overlapping portion of a respective nut.

Claim 10 (Original): An actuator according to claim 1, wherein the pin extends in a direction that is radial relative to the main axis of the screw.

Claim 11 (Withdrawn): An actuator according to claim 1, wherein the electrical link extends over a go-and-return path inside the pin, the bend in which path is situated in the vicinity of that end of the pin which is closer to the screw.

Claim 12 (Original): An actuator according to claim 1, wherein clearance between the two nuts is chosen to cause the pin to break by shearing, without causing the electrical link to break by shearing, a spring being provided on the pin so as to push apart the portions separated by the shearing, and so as then to cause the link to break by having longitudinal traction applied to it.

Claim 13 (Withdrawn): An actuator according to claim 1, wherein the two nuts are formed firstly by a secondary nut stressed when a primary nut fails, and secondly by a lock nut distinct from the

primary nut, the lock nut being constrained to turn with secondary nut by the pin so that, after the pin has broken, the lock nut is released and free to turn relative to the secondary nut.

Claim 14 (Withdrawn): An actuator according to claim 1, wherein the mechanical extension is constituted by the secondary nut itself.

Claim 15 (Withdrawn): An actuator according to claim 13, wherein the secondary nut and the lock nut have respective facing faces that are transverse to the direction of the screw, and that are organized to come into abutment with each other by moving relative to each other towards the screw and then to prevent the secondary nut from turning relative to the screw.

Claim 16 (Withdrawn): An actuator according to claim 13, in combination, wherein the pin carries a head directed towards the screw, and a spring organized to push said head away against the screw when the pin breaks, so as to brake the turning of the lock nut relative to the screw after the pin has broken.

Claim 17 (Withdrawn): An actuator according to claim 13, wherein clearances exist between the lock nut and the screw, and between the secondary nut and the screw, the clearance of the lock nut being smaller than the clearance of the secondary nut, so that moving the secondary nut in translation along the screw causes the pin to break under the action of the lock nut before mechanical co-operation takes place between the secondary nut and the thread of the screw.

Claim 18 (Withdrawn): An actuator according to claim 1, wherein the pin is equipped with a spring placed to move apart two portions divided by shearing, and wherein a stop element is placed in the vicinity of the pin, a wall of the stop element forming an obstacle preventing one of the divided portions from moving when it is pushed away by the spring.

Claim 19 (Withdrawn): An actuator according to claim 18, wherein the stop element is formed by a piece having two walls that are substantially parallel, one of the walls having the pin passing through it and serving to shear it, and the other wall forming the obstacle to a portion of the pin that is pushed away by the spring.

Claim 20 (Withdrawn): An actuator according to claim 1, wherein the pin includes a portion serving to be sheared, which portion is provided with a thread and is equipped with a nut forming an abutment head for the spring, and wherein that head of the pin which is opposite from said spring emerges to pass through the obstacle-forming wall of the stop element, the head of the pin coming into abutment against the obstacle-forming wall when the pin breaks.

Claim 21 (Original): An actuator according to claim 1, constituting an actuator for actuating a moving member of a transport craft.

Claim 22 (Original): An actuator according to claim 1, constituting an actuator for actuating a moving member of an aircraft.